



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

D3016-3
Job Sheet 168201



Part No: D3016-3

Job Qty: 10 ea

Part Name: Tube



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 11/13/17

Job Tracking No:

Due Date: 11/30/17

Created By: Mario Poulin

Type: Stock

Description:

Note: DWG REV A IPP REV:A 16.08.31 NEW PROCESS DD VERF:JLM

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	10 Ea		11/29/17	0.00	0.00	Start Up Machining		<i>EZ</i> 11/20/2017
120	Mill Conv	10 pcs		11/30/17	0.00	1.43	Mill Conv 1		<i>J.C.L.</i> 17/11/22
130	QC	10 pcs		11/30/17	0.00	0.00	QC2		<i>J.C.L.</i> 17-11-22
140	QC	10 pcs		11/30/17	0.00	0.00	QC8		<i>FX</i> 17-11-24
150	Packaging	10 pcs		11/30/17	0.00	0.00	Packaging3	<i>W.P.O.L.</i>	<i>SP</i>
160	QC21-SA	10 Ea		11/30/17	0.00	0.00	QC21		<i>SP</i>

Part Op 120 - CUT TO LENGHT AS PER DWG USE TOOLING
Descriptions:

NOV 2 R 2017

Job Allocations

Operation	Component Part	Required	Inventory	Allocated	Std Qty
90-Start up Operation	M4130NT0.750W.049	6	50	0	0

Part Specifications

Spec No	Description	Target/Tolerance	Limits	Type	Special Comments
1	Tube	5.270Inches $\pm$ 0.030	5.300 5.240		
2	Tube	0.500Inches $\pm$ 0.030	0.530 0.470	Radius	

Plex 11/13/17 7:50 AM dart.poulin.mario

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

CA Closed: _____ Date: _____

Work Order update only ☐



DISPOSITION

Rework ☐
Scrap ☐
Use-as-is ☐
Suspected Unapproved ☐

AGAINST DEPARTMENT/PROCESS

Skid-tube ☐
Machining ☐
Thermoforming ☐
Large Fab ☐

Work Order: _____

Part No. _____

NCR No. _____

Date: _____ Step #: _____

QTY Effective: _____

Description Work Order Deviation

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K64 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Root Cause

Environment ☐
Design ☐
Doc/Data ☐
Equip/Tooling ☐
Handling/Pre ☐
Material ☐
Internal Transport ☐
Tribal Knowledge ☐
LOA ☐
Substation ☐
Past Expiry Date ☐
Misidentified ☐
No Re-verification ☐
Operator ☐
Offset/Setup ☐
Supplier ☐
Training ☐
Use for Testing ☐
Poor Information ☐
Rushing ☐
Product Improvement ☐
Process Improvement ☐
Manufacturing Process ☐
Past Due ☐

FAULT

Pressure/Forced ☐
Bending ☐
Centre Not Concentric ☐
Cracks ☐
Crimp/Kink/Ripple/Wave ☐
Cuffs ☐
Crushing ☐
Heat Treat ☐
Wave/Twist in Tube ☐
Marks/Chatter ☐
Temperature/Cure ☐
Set-up ☐
BOM/Route ☐
Broken/Damage/Defect ☐
Inspection Incomplete/Unq ☐
Contamination ☐
Countersink ☐
Cut Too Short ☐
Instructions Incomplete/Un ☐
Drill Holes ☐

OTHER: _____

DART
AEROSPACE
S011642



Tube

PART NO:
Revision:
Operation:
Change No:

D3016 - 3

Start up Operation

Mfg Date: 11/20/17
Job No: 168201

Misaligned/off center

Turning Sequence

DART AEROSPACE LTD		Work Order:	168201
Description: Tube		Part Number:	D3016-3
Inspection Dwg: D3016	Rev: A		Page 1 of 1

INSPECTION SHEET

[illegible]

Measured by:	J.C. - L.	Checked by:	FK	QC Inspector:	
Date:	17-11-22	Date:	17-11-24	Date:	

Engineering Approval: (if necessary)		Date:	
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Rev	Date	Change	Revised by	Approved
A	16.10.13	New Issue	KJ 	



Dart Hawkesbury
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Tel (613) 632-5200

Inventory

Operation Number	Operation	Serial Number	Job	Quantity	Weight	Original Serial Number	Location	Container	Status	Added	Special Comments	Label	Supplier	Change No
Part Number: M4130NT0.750W.049 Revision: 4130 Round Tube .750 X.049W														
100	Receive Ft	S011641	168201	1 ft	0		Start Up Machining		Stock	11/20/2017	Issue Container			
Operation Totals:		1		1	0									
Part Totals:		1		1	0									
Totals:		1		1	0									

Plex 1/8/2018 10:36 AM Dart.Boucher.Sylvie

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
☐ OTHER : _____					

5009145



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

602.4302-NC
Job Sheet 168205



Part No: 602.4302-NC

Job Qty: 2 ea

Part Name: Hose



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 11/13/17

Job Tracking No:

Due Date: 12/13/17

Created By: Linda Lacelle

Type: Stock

Description:

Customer: Bell Helicopter Textron (CBELL02)

12,800 Rue De L'Avenir Mirabel, QC, J7J 1R4 Canada ph:(450) 971-6500

Note: IPP REV:A 17.11.13 NEW ISSUE DD VERF:JFS

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Purchasing	2 pcs	11/13/17	11/13/17	0.00	0.00	Purchasing		
110	Packaging	2 pcs	11/13/17	11/13/17	0.00	0.00	Packaging2		
120	QC	2 pcs	11/13/17	11/13/17	0.00	0.00	QC6		DAS
130	Packaging	2 pcs	11/13/17	11/13/17	0.00	0.00	Packaging3		21
140	QC21-SA	2 Ea	11/13/17	11/13/17	0.00	0.00	QC21		9-89 DEC 16 2017

Part Op Descriptions: 100 - ISSUE P/O: PO038334 SUPPLIER: VISTA C OF C IS REQUIRED

Job Allocations

Operation	Component Part	Required	Inventory	Allocated	Std Qty
100-Purchasing	602.4302P	2	0	0	0

5009130

Part Specifications

Specifications could not be found.

Plex 11/13/17 3:51 PM dart.boucher.sylvie

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mis-labeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					